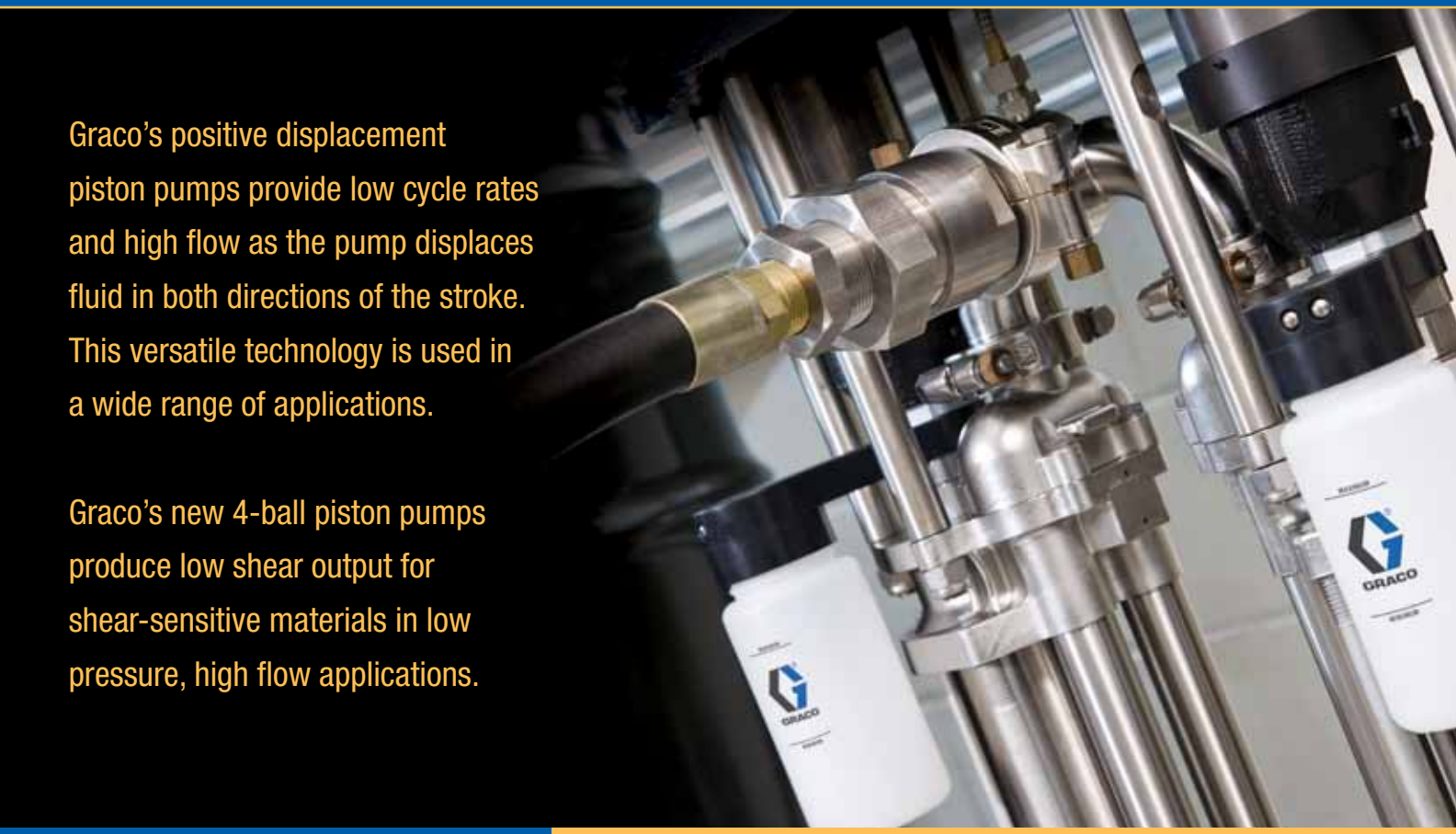
Graco 4-Ball Pump Technology

High Performance Industrial Pumps

PROVEN QUALITY. LEADING TECHNOLOGY.

4-BALL PISTON PUMP LOWERS



Graco's positive displacement piston pumps provide low cycle rates and high flow as the pump displaces fluid in both directions of the stroke. This versatile technology is used in a wide range of applications.

Graco's new 4-ball piston pumps produce low shear output for shear-sensitive materials in low pressure, high flow applications.

TYPICAL APPLICATIONS

- Paint circulation
- Fluid transfer and supply

TYPICAL FLUIDS HANDLED

- Waterborne paints
- Solventborne paints
- Acid catalyzed varnishes, enamels and lacquers

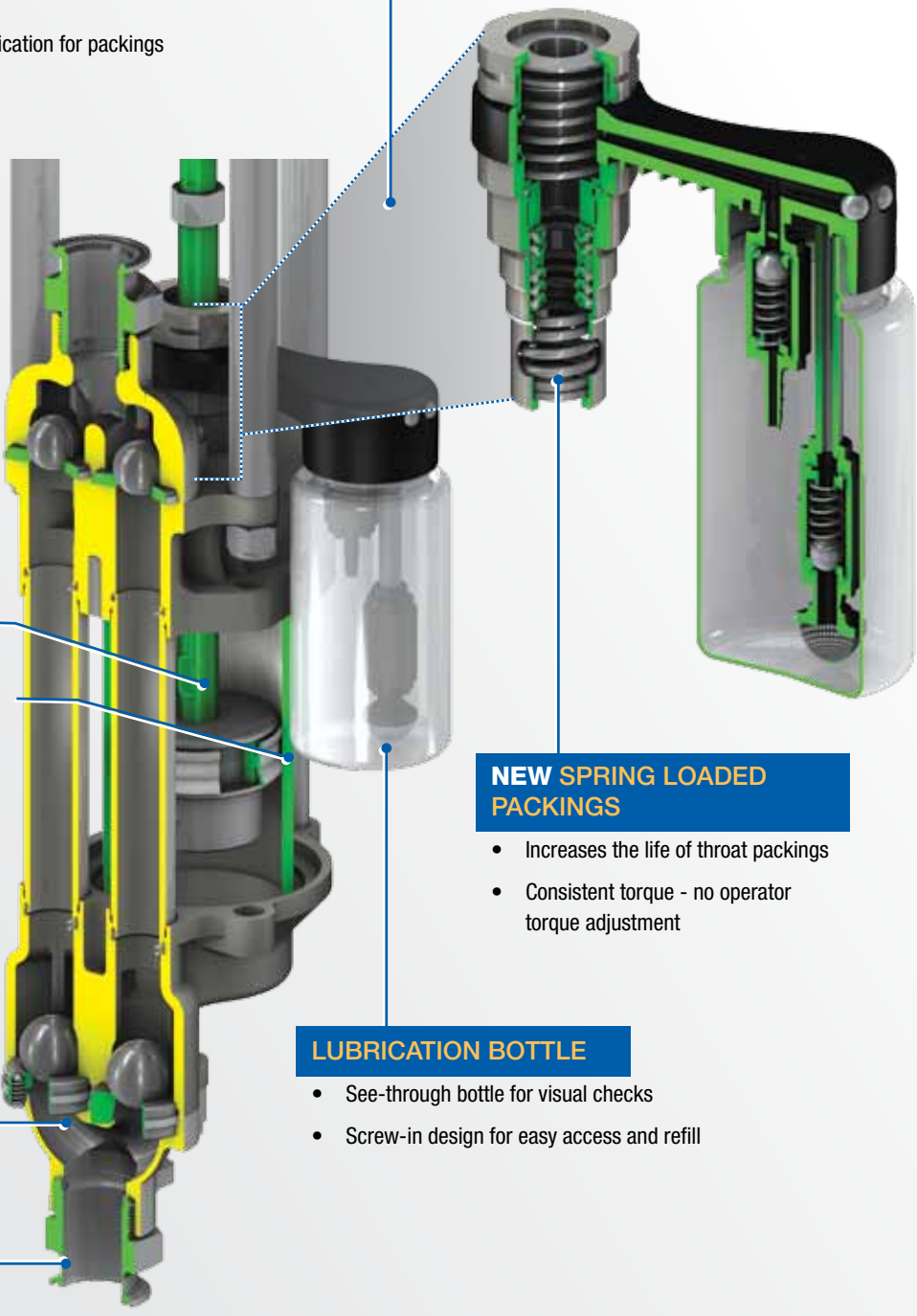
THE LATEST IN LOW PRESSURE, HIGH FLOW TECHNOLOGY

GRACO IS MAKING IT EASIER to install and maintain your 4-ball pump. Not only can all lowers be used with pnuematic, hydraulic and electric platforms, many models have COMMON COMPONENTS – making cylinders and pistons easily interchangeable between pump sizes.

ADDITONAL FEATURES also now come standard on the 4-ball lowers, such as the new enclosed wet cup, stainless steel seats and spring loaded packings.

NEW ENCLOSED WET CUP

- Minimizes operator interaction for reduced maintenance
- Maintains consistent lubrication for packings



IMPROVED COATINGS

- Standard Chromex™ Rods Produce durable pump performance
- Available Maxlife™ Cylinders Provide maximum abrasion and wear resistance

NEW SPRING LOADED PACKINGS

- Increases the life of throat packings
- Consistent torque - no operator torque adjustment

LUBRICATION BOTTLE

- See-through bottle for visual checks
- Screw-in design for easy access and refill

STAINLESS STEEL OR CARBIDE SEATS

NPT OR TRI-CLAMP FITTINGS

ACCURATE AND DEPENDABLE MOTOR SOLUTIONS

PNEUMATIC

Pneumatic High-Flo® pumps with NXT® motor technology set the standard for long-lasting durability. These pumps are built to handle the toughest finishing applications.

- Modular design for easier maintenance
- Rugged body armor, won't rust or dent
- Highest technology air motor on the market
- De-icing controls eliminate stalling
- Integrated air control
- DataTrak™ (Optional)
  - Runaway protection
  - Pump diagnostics
  - Tracks material usage

HYDRAULIC

Field proven, energy efficient Viscount® pumps provide reliable, quiet, ice-free performance and are up to three times more energy efficient than comparable compressed air systems. With three hydraulic motor types, Graco has the right size to meet your application needs.

- Low noise
- No icing
- Up to 3 times more efficient than pneumatics
- Lower operating costs

ELECTRIC

Get the benefits of a piston pump with the energy efficiency of an E-Flo® electric drive unit. The dual lower minimizes pressure changes at the outlet of the pump. Online maintenance simplifies repair and reduces downtime. Accomplish remote monitoring of performance via computer or PLC for a higher degree of control.

- Low noise
- No icing
- Up to 3 times more efficient than pneumatics
- Process control and feedback
- Slow smooth changeovers

HIGH-FLO

	Model	1.7:1	2:1	2.3:1	3:1	3.3:1	3.5:1	4:1	4.4:1	4.5:1
PUMP SPECIFICATIONS	Pump Ratio	1.7:1	2:1	2.3:1	3:1	3.3:1	3.5:1	4:1	4.4:1	4.5:1
	Output per Cycle	4000 cc	2000 cc	3000 cc	1500 cc	4000 cc	2000 cc	1000 cc	3000 cc	1500 cc
	Motor Size	3400	2200	3400	2200	6500	3400	2200	6500	3400
	Maximum Working Pressure psi (bar)	170 (11.7)	200 (13.8)	230 (15.8)	290 (20)	325 (22.4)	340 (23.4)	400 (27.6)	440 (30.3)	450 (31)
	Maximum Air Input Pressure psi (bar)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)
	Output at 60 CPM gpm (lpm)	63 (238.6)	31.9 (119.3)	47.3 (179)	23.2 (87.9)	63 (238.6)	31.5 (119.3)	16.9 (64)	47.3 (179)	23.2 (87.9)
MANUALS	Pump Manual	3A0538	3A0538	3A0538	3A0538	3A0538	3A0538	3A0538	3A0538	3A0538
	Lower Manual	3A0540	3A0539	3A0540	3A0539	3A0540	3A0539	3A0539	3A0540	3A0539
	Motor Manual	311238	311238	311238	311238	311238	311238	311238	311238	311238
INLET/ OUTLET SIZE	Pump Inlet Size (NPT and Tri-Clamp)	2	1-1/2	2	1-1/2	2	1-1/2	1-1/2	2	1-1/2
	Pump Outlet Size (NPT and Tri-Clamp)	2	1	2	1	2	1	1	2	1

		Lower Type	Cylinder	Fittings	Motor Type	DataTrak								
PUMP CONSTRUCTION	PUMP ONLY	CS	Hard Chrome	NPT	Low Noise		JC17L1	JC20L1	JC23L1	JC30L1	JC33L1	JC35L1	JC40L1	JC44L1	JC45L1
						•	JC17M1	JC20M1	JC23M1	JC30M1	JC33M1	JC35M1	JC40M1	JC44M1	JC45M1
		SST	Hard Chrome	NPT	Low Noise		JS17L1	JS20L1	JS23L1	JS30L1	JS33L1	JS35L1	JS40L1	JS44L1	JS45L1
						•	JS17M1	JS20M1	JS23M1	JS30M1	JS33M1	JS35M1	JS40M1	JS44M1	JS45M1
					Remote		JS17R1	JS20R1	JS23R1	JS30R1	JS33R1	JS35R1	JS40R1	JS44R1	JS45R1
						•	JS17S1	JS20S1	JS23S1	JS30S1	JS33S1	JS35S1	JS40S1	JS44S1	JS45S1
				Tri-Clamp	Low Noise		–	JS20L5	–	JS30L5	–	JS35L5	JS40L5	–	JS45L5
						•	–	JS20M5	–	JS30M5	–	JS35M5	JS40M5	–	JS45M5
					Remote		–	JS20R5	–	JS30R5	–	JS35R5	JS40R5	–	JS45R5
						•	–	JS20S5	–	JS30S5	–	JS35S5	JS40S5	–	JS45S5
			Maxlife	NPT	Low Noise		JS17L2	JS20L2	JS23L2	JS30L2	JS33L2	JS35L2	JS40L2	JS44L2	JS45L2
						•	JS17M2	JS20M2	JS23M2	JS30M2	JS33M2	JS35M2	JS40M2	JS44M2	JS45M2
					Remote		JS17R2	JS20R2	JS23R2	JS30R2	JS33R2	JS35R2	JS40R2	JS44R2	JS45R2
						•	JS17S2	JS20S2	JS23S2	JS30S2	JS33S2	JS35S2	JS40S2	JS44S2	JS45S2
				Tri-Clamp	Low Noise		–	JS20L6	–	JS30L6	–	JS35L6	JS40L6	–	JS45L6
						•	–	JS20M6	–	JS30M6	–	JS35M6	JS40M6	–	JS45M6
					Remote		–	JS20R6	–	JS30R6	–	JS35R6	JS40R6	–	JS45R6
						•	–	JS20S6	–	JS30S6	–	JS35S6	JS40S6	–	JS45S6
	PACKAGE	SST	Hard Chrome	NPT	Low Noise	•	–	–	–	–	703MSN*	–	704MSN*	–	–
					Remote	•	–	–	–	–	703SSN*	–	704SSN*	–	–
				Tri-Clamp	Low Noise	•	–	–	–	–	703MST*	–	704MST*	–	–
					Remote	•	–	–	–	–	703SST*	–	704SST*	–	–

**Package includes pump, wall bracket, air controls and DataTrak*

VISCOUNT

PUMP SPECIFICATIONS	Output per Cycle	2000 cc	1500 cc	4000 cc	1000 cc	3000 cc	750 cc	2000 cc
	Motor Size	Viscount I	Viscount I	Viscount II	Viscount I	Viscount II	Viscount I	Viscount II
	Max Working Pressure psi (bar)	167 (12)	225 (16)	300 (21)	300 (21)	400 (28)	450 (31)	460 (32)
	Max Hydraulic Input Pressure psi (bar)	1500 (103)	1500 (103)	1200 (83)	1500 (103)	1200 (83)	1500 (103)	1200 (83)
	Oil Flow at 60 CPM gpm (lpm)	3.5 (13.2)	3.5 (13.2)	12 (45)	3.5 (13.2)	12 (45)	3 (11.3)	12 (45)
	Output at 60 CPM gpm (lpm)	31.5 (119.3)	23.2 (87.9)	63 (238.6)	16.9 (64)	47.3 (179)	9.6 (36.4)	31.5 (119.3)
MANUALS	Pump Manual	3A0537	3A0537	3A0537	3A0537	3A0537	3A0537	3A0537
	Lower Manual	3A0539	3A0539	3A0540	3A0539	3A0540	3A0539	3A0539
	Motor Manual	308330	308330	308048	308330	308048	308330	308048
INLET/OUTLET SIZE	Hydraulic Fluid Inlet	3/4 in (37° flare)	3/4 in (37° flare)	3/4 npt(f)	3/4 in (37° flare)	3/4 npt(f)	3/4 in (37° flare)	3/4 npt(f)
	Hydraulic Fluid Outlet	7/8 in (37° flare)	7/8 in (37° flare)	1 npt(f)	7/8 in (37° flare)	1 npt(f)	7/8 in (37° flare)	1 npt(f)
	Pump Inlet Size (NPT and Tri-Clamp)	1-1/2	1-1/2	2	1-1/2	2	1-1/2	2
	Pump Outlet Size (NPT and Tri-Clamp)	1	1	2	1	2	1	2

	Lower Type	Cylinder	Fittings						
PUMP CONSTRUCTION	CS	Hard Chrome	NPT	24E331	24E328	24E340	24E325	24E337	–	24E334
		Nitride		–	–	–	–	–	24E322	–
	SST	Hard Chrome	NPT	24E491	24E489	24E341	24E487	24E338	24E485	24E493
		Maxlife		24E492	24E490	24E342	24E488	24E339	24E486	24E494
		Hard Chrome	Tri-Clamp	24E332	24E329	–	24E326	–	24E323	24E335
		Maxlife		24E333	24E330	–	24E327	–	24E324	24E336

NOTE: Graco recommends 20 cpm or less for intermittent pumping applications and 12 cpm or less for continuous pumping applications.

E-FLO

	Model	1500	2000	3000	4000
PUMP SPECIFICATIONS	Output per Cycle	1500 cc	2000 cc	3000 cc	4000 cc
	Electric AC Motor Size	3 HP	5 HP	5 HP	5 HP
	Max Working Pressure psi (bar)	425 (29)*	460 (32)	330 (23)	250 (17)
	Output at 20 CPM gpm (lpm)	8.1 (31)	12 (45)	16.2 (61)	22.6 (85.5)
MANUALS	Pump Manual	311593	311593	311593	311593
	Lower Manual	3A0539	3A0539	3A0539	3A0539
	Motor Manual	311593	311593	311593	311593
INLET/ OUTLET SIZE	Pump Inlet Size	2 in Tri-Clamp	2 in Tri-Clamp	2 in Tri-Clamp	2 in Tri-Clamp
	Pump Outlet Size	2 in Tri-Clamp	2 in Tri-Clamp	2 in Tri-Clamp	2 in Tri-Clamp

	Motor Type	Sensor Type	Lower Type	Stand				
PUMP CONSTRUCTION	No Motor	No Sensor	SST		EP0070	EP0010	EP0020	EP0030
				•	EP0071	EP0011	EP0021	EP0031
			MAXLIFE		EP0080	EP0040	EP0050	EP0060
				•	EP0081	EP0041	EP0051	EP0061
		ATEX/FM	SST		EP0170	EP0110	EP0120	EP0130
				•	EP0171	EP0111	EP0121	EP0131
			MAXLIFE		EP0180	EP0140	EP0150	EP0160
				•	EP0181	EP0141	EP0151	EP0161
	ATEX	No Sensor	SST		EP3070	EP1010	EP1020	EP1030
				•	EP3071	EP1011	EP1021	EP1031
			MAXLIFE		EP3080	EP1040	EP1050	EP1060
				•	EP3081	EP1041	EP1051	EP1061
		ATEX/FM	SST		EP3170	EP1110	EP1120	EP1130
				•	EP3171	EP1111	EP1121	EP1131
			MAXLIFE		EP3180	EP1140	EP1150	EP1160
				•	EP3181	EP1141	EP1151	EP1161
	FM	No Sensor	SST		EP4070	EP2010	EP2020	EP2030
				•	EP4071	EP2011	EP2021	EP2031
			MAXLIFE		EP4080	EP2040	EP2050	EP2060
				•	EP4081	EP2041	EP2051	EP2061
		ATEX/FM	SST		EP4170	EP2110	EP2120	EP2130
				•	EP4171	EP2111	EP2121	EP2131
			MAXLIFE		EP4180	EP2140	EP2150	EP2160
				•	EP4181	EP2141	EP2151	EP2161

**5 HP motor on no-motor configuration allows for 460 psi (31 bar) maximum working pressure*

NOTE: Graco recommends 20 cpm or less for intermittent pumping applications and 12 cpm or less for continuous pumping applications.

AGITATORS

231414 Heavy-duty agitator with elevator, drum cover and siphon kit
231413 Same as 231414 without siphon capability
238157 Heavy-duty back-geared agitator
240209 Same as 238157 with siphon kit

AIR SUPPLY CONTROLS

217074 Air filter (40 micron)
181521 High volume air regulator (200 cfm, 75 psi max)
206197 High volume air regulator (200 cfm, 125 psi max)
207755 High volume air regulator (380 cfm, 125 psi max)
214849 Air lubricator (3/4 npt(f), 16 oz bowl capacity
217072 Air Filter-Regulator-Lubricator (FRL) kit (2200/3400)
217073 Air Filter-Regulator-Lubricator (FRL) kit (6500)
222345 Air Filter-Regulator-Lubricator (FRL) kit (2200/3400/Glutton with hose, bracket, gauge and swivel adapters)
NXT011 Integrated air control for NXT air motors

BACK PRESSURE REGULATORS (BPR)

208997 Mechanical (15 gpm, 180 psi max fluid pressure, 1-1/4 npt)
236770 Mechanical (4.3 gpm, 180 psi max fluid pressure, 3/8 npt)
916154 Carbide mechanical (15 gpm, 180 psi max fluid pressure, 1-1/4 npt)
288117 Pnuematic (20 gpm, 300 psi max fluid pressure, 1-1/4 npt)
288311 Pnuematic (20 gpm, 300 psi max fluid pressure, 1-1/2 npt)
288262 Pnuematic (20 gpm, 300 psi max fluid pressure, 2 in tri-clamp)
224486 Low shear mechanical (20 gpm, 300 psi max fluid pressure, 1-1/2 npt)
223824 Low shear mechanical (20 gpm, 300 psi max fluid pressure, 2 in sanitary)
15J498 Pnuematic BPR conversion kit
24E709 BPR kit for 750 cc lowers
24E722 BPR kit for 1000 cc to 4000 cc lowers

FITTINGS

16F044 Inlet/outlet fitting for 1 npt to 1 bspp
16F045 Inlet/outlet fitting for 1-1/2 npt to 1-1/2 bspp
16F046 Inlet/outlet fitting for 2 npt to 2 bspp
15J423 Inlet/outlet fitting for 2 in tri-clamp to 2 npt
15J639 Inlet/outlet fitting for 1-1/2 in tri-clamp to 2 in tri-clamp

FLUID FILTER

244053 Low pressure PTFE encapsulated fluoroelastomer SST (Mesh 60)
247479 Kit for 3/4 npt(f) SST fluid filter kit
247480 Kit for 1 npt(f) SST fluid filter kit
247474 Aluminum fluid filter kit
915515 Low pressure bag filter (15 gpm, 300 psi, CS)
915516 Low pressure bag filter (15 gpm, 300 psi, SST)
915517 Low pressure bag filter (30 gpm, 300 psi, CS)
915518 Low pressure bag filter (30 gpm, 300 psi, SST)
213057 Red alert low pressure filter (6 gpm, 30 Mesh, 3/4 npt)
213058 Red alert low pressure filter (6 gpm, 60 Mesh, 3/4 npt)
213059 Red alert low pressure filter (6 gpm, 100 Mesh, 3/4 npt)
213060 Red alert low pressure filter (6 gpm, 150 Mesh, 3/4 npt)
213061 Red alert low pressure filter (6 gpm, 200 Mesh, 3/4 npt)
213062 Red alert low pressure filter (20 gpm, 30 Mesh, 3/4 npt)
213063 Red alert low pressure filter (20 gpm, 60 Mesh, 3/4 npt)
213064 Red alert low pressure filter (20 gpm, 100 Mesh, 3/4 npt)
213065 Red alert low pressure filter (20 gpm, 150 Mesh, 3/4 npt)
213066 Red alert low pressure filter (20 gpm, 200 Mesh, 3/4 npt)

GAUGE

187875 Gauge (30 psi max, SST)
187874 Gauge (100 psi max, SST)
187873 Gauge (200 psi max, SST)
187876 Gauge (300 psi max, SST)

TORQUEABLE WET CUP KITS

24F144 Kit for 750-2000 cc lowers
187874 Kit for 3000-4000 cc lowers

ELECTRIC MOTOR ACCESSORIES

120373 Local I/O box
15J755 Sensor circuit kit
288414 Gear box lubricant, 12 pack carton

HYDRAULIC MOTOR ACCESSORIES

189305 Assembly tool for servicing yoke and trip rod (Viscount I)
239805 Intake valve seat with relief valve, carbide seat (Viscount I)
239865 Intake valve seat without relief valve, carbide seat (Viscount I)
237744 Intake valve seat, with internal pressure relief valve (Viscount II)
180529 Intake valve seat, without relief valve (Viscount II)
515258 Hydraulic pressure control valve 3/4 npt inlet, 3/4 npt outlet, 1/4 npt drain, 1/4 npt gauge
512150 Hydraulic shutoff valve (2000 psi max, 1/2 npt (fbe)
102644 Hydraulic shutoff valve (3000 psi max, 3/4 npt (fbe)
102646 Hydraulic shutoff valve (3000 psi max, 1 npt (fbe)
169236 Hydraulic oil 5 gal (18.9 l) size

PNEUMATIC MOTOR ACCESSORIES

NXT206 DataTrak upgrade kit for the NXT 2200
NXT306 DataTrak upgrade kit for the NXT 3400
NXT606 DataTrak upgrade kit for the NXT 6500

MOUNTING HARDWARE

255143 Wall Bracket for all NXT and Viscount Motors
253692 Stand for NXT and Viscount Motors (750-2000 cc)
218742 Stand for NXT and Viscount Motors (3000-4000 cc)
247312 Wall mount and floor stand adapter for NXT 2200 motor
16E086 Wall mount and floor stand adapter for Viscount I, I+ motor
287884* Heavy duty cart
287919* Light duty cart
222011 Grounding Clamps
15H884 Stand for E-Flo

SUCTION KITS

247475 For 1-/2 npt(f) 5 gallon (18 l) SST suction kit
247476 For 1-1/2 npt(f) 55 gallon (208 l) SST suction kit
247477 For 2 npt(f) 5 gallon SST (18 l) suction kit
247478 For 2 npt(f) 55 gallon (208 l) SST suction kit
24E709 Circulation kit (4.3 gpm, 180 psi max)
24E722 Circulation kit (15 gpm, 180 psi max)

SURGE TANKS

239858 Medium volume (15 gpm, 600 psi, SST)
238987 High volume (20 gpm, 300 psi, SST, 2 npt)
238988 High volume (20 gpm, 300 psi, SST, 1-1/2 npt)
218509 High volume (20 gpm, 300 psi, SST, 2 npt, carbide)
218742 Floor stand

HEATER

239850 Vis-con HP (120 VAC)
239851 Vis-con HP (240 VAC)
239852 Vis-con HP (220/240 VAC)

RETROFIT CONNECTION KITS

24F308 High-Flo to Bulldog/Senator
24F065 High-Flo to Viscount/President/President Stubby

UPGRADE KITS

FOR PREVIOUSLY RELEASED PUMP LOWERS

24E664 Upgrade kit for enclosed wet cup, SST, High-Flo 1000 cc lowers
24H346 Upgrade kit for enclosed wet cup, SST, High-Flo 1500 cc lowers
24H348 Upgrade kit for enclosed wet cup, SST, High-Flo 2000 cc lowers
24F062 Upgrade kit for enclosed wet cup, CS, High-Flo 1000 cc lowers
24H347 Upgrade kit for enclosed wet cup, CS, High-Flo 1500 cc lowers
24H349 Upgrade kit for enclosed wet cup, CS, High-Flo 2000 cc lowers
24F063 Upgrade kit for open wet cup, SST, High-Flo 1000-2000 cc lowers
24F064 Upgrade kit for open wet cup, CS, High-Flo 1000-2000 cc lowers
24H350 Upgrade kit for enclosed wet cup, SST, High-Flo Plus 2000 cc lowers
24F285 Upgrade kit for enclosed wet cup, SST, High-Flo Plus 3000 cc lowers
24H354 Upgrade kit for enclosed wet cup, SST, High-Flo Plus 4000 cc lowers
24H351 Upgrade kit for enclosed wet cup, CS, High-Flo Plus 2000 cc lowers
24F286 Upgrade kit for enclosed wet cup, CS, High-Flo Plus 3000 cc lowers
24H355 Upgrade kit for enclosed wet cup, CS, High-Flo Plus 4000 cc lowers
24H352 Upgrade kit for open wet cup, SST, High-Flo Plus 2000 cc lowers
24F287 Upgrade kit for open wet cup, SST, High-Flo Plus 3000 cc lowers
24H356 Upgrade kit for open wet cup, SST, High-Flo Plus 4000 cc lowers
24H353 Upgrade kit for open wet cup, CS, High-Flo Plus 2000 cc lowers
24F288 Upgrade kit for open wet cup, CS, High-Flo Plus 3000 cc lowers
24H357 Upgrade kit for open wet cup, CS, High-Flo Plus 4000 cc lowers
24F293 Upgrade kit, E-Flo ball cages

** Please contact customer service for questions or assistance choosing the correct cart adapter kit for your pump.*

ABOUT GRACO

PROVEN QUALITY. LEADING TECHNOLOGY.

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

GRACO LOCATIONS

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